

IPW

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:
Anders Landin and Erik E.
Hagersten

Group Art Unit: 2186

Examiner: Unknown

Serial No.: 10/817,632

Atty Dkt.: 5181-95501

Filed: April 2, 2004

For: Multi-Node System in which Home
Memory Subsystem Stores Global
to Local Address Translation
Information for Replicating Nodes

I hereby certify that this correspondence is being deposited with the
U.S. Postal Service as First Class Mail in an envelope addressed to:
Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-
1450, on the date indicated below:

B. Noel Kivlin

Name of Registered Representative

7-7-05

Date

Signature

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Applicant requests consideration of ☒ the references listed on the attached Form PTO-1449 and/or ☐ the additional information identified below in paragraph 3.

- ☒ Pursuant to CFR §1.98(a)(2)(i), copies of the cited U.S. patents and/or U.S. patent application publications are not enclosed.
- ☒ A copy of each non-U.S. patent and/or non-U.S. patent application publication reference listed on the Form PTO-1449 is enclosed.
- ☐ The non-U.S. patent and/or non-U.S. patent application publication references listed on the Form PTO-1449 were previously cited in application serial no., _____ to which the captioned application is seeking priority under 35 U.S.C. §120; therefore, a copy of each reference is not enclosed.

1. This Information Disclosure Statement is submitted:

- a. ☐ within 3 months of the filing date of a national application other than a continued prosecution application under § 1.53(d);
- ☐ within 3 months of the date of entry of the national stage as set forth in § 1.491 in an International application;
- ☒ before the mailing date of a first Office Action on the merits; or
- ☐ before the mailing of a first Office Action after the filing of a request for continued examination under § 1.114.


- b. ☐ after the events of above paragraph 1a and prior to the mailing date of a final Office Action or Notice of Allowance, and thus: ☐ the certification of paragraph 2 below is provided, or ☐ a fee of \$180.00 is enclosed.
- c. ☐ after the mailing date of a final Office Action or a Notice of Allowance and prior to payment of the issue fee, and thus: the certification of paragraph 2 below is provided and a fee of \$180.00 is enclosed.
2. It is hereby certified:
- ☐ that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Statement, or
- ☐ that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in § 1.56 (c) more than three months prior to the filing of the Statement.
3. ☐ Consideration of the following additional information (including any co-pending or abandoned U.S. applications, prior uses and/or sales, etc.) is requested:
4. For each non-English language reference listed on the attached Form PTO-1449:
- ☐ reference is made to an English language translation submitted herewith, and/or
- ☐ reference is made to a foreign patent office search report (in the English language) submitted herewith, and/or
- ☐ reference is made to an English language translation of a foreign patent office search report submitted herewith, and/or
- ☐ reference is made to the concise explanation contained in the specification of the present application at page(s) _____, and/or
- ☐ reference is made to the concise explanation set forth below:
5. ☐ Applicant also offers the following comments for the Examiner's consideration:
6. ☐ Also enclosed is a copy of a foreign search report citing these references.
7. ☐ The listed documents were brought to the attention of the Applicant(s) after payment of the issue fee in the captioned case. The documents were cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure

Statement. Applicant(s) request this Information Disclosure Statement and attached Form PTO-1449 be placed in the file of the captioned application.

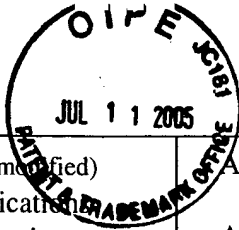
8. ☐ Applicant(s) requests that the Information Disclosure Statement and attached Form PTO-1449 and references, which are being filed before the grant of the patent and pursuant to 37 C.F.R. § 1.97(i), be placed in the file of the captioned application.

If any required fees are missing, the Commissioner is authorized to charge said fees to Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C. Deposit Account No. 50-1505/5181-95501.

Respectfully submitted,


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(512) 853-8800
Date: 7-7-05



Form PTO-1449 (modified) List of Patents and Publications For Applicant's Information Disclosure Statement (Use several sheets if necessary)	ATTY. DKT. NO. 5181-95501 APPLICANT: Landin, et al FILING DATE: April 2, 2004	SERIAL NO. 10/817,632 GROUP: 2186
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U.S. PATENT DOCUMENTS

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	A1	6,209,064	3/27/01	Weber			
	A2	6,088,768	7/11/00	Baldus, et al			
	A3	5,802,582	9/1/98	Ekanadham, et al			
	A4	5,761,721	6/2/98	Baldus, et al			

FOREIGN PATENT DOCUMENTS

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	A5	"Specifying and Verifying a Broadcast and a Multicast Snooping Cache Coherence Protocol", Sorin, et al, <u>IEEE Transactions on Parallel and Distributed Systems</u> , Vol. 13, No. 6, June 2002, http://www.cs.wisc.edu/multifacet/papers/tpds02_lamport.pdf
	A6	"Multicast Snooping: A New Coherence Method Using a Multicast Address Network", Bilir, et al, <u>The 26th International Symposium on Computer Architecture</u> , IEEE, Atlanta, GA, May 2-4, 1999, http://csdl.computer.org/comp/proceedings/isca/1999/0170/00/01700294abs.htm
	A7	"Architecture and Design of AlphaServer GS320", Gharachorloo, et al, <u>ACM Sigplan Notices</u> , Volume 35, Issue 11, November 2000, http://portal.acm.org/citation.cfm?id=356991&dl=ACM&coll=portal
	A8	"View Caching: Efficient Software Shared Memory for Dynamic Computations", Karamcheti, et al, <u>11th International Parallel Processing Symposium</u> , Geneva, Switzerland, April 1-5, 1997, http://ipdps.eece.unm.edu/1997/s13/318.pdf
	A9	"Cache-Coherent Distributed Shared Memory: Perspectives on Its Development and Future Challenges", Hennessy, et al, <u>Proceedings of the IEEE</u> , Vol. 87, Issue 3, March 1999, ISSN 0018-9219, http://cva.stanford.edu/cs99s/papers/hennessy-cc.pdf
	A10	"Survey on Cache Coherence in Shared & Distributed Memory Multiprocessors", Garg, et al, Online, http://www.cse.psu.edu/~cg530/proj03/cache_coherence.pdf
	A11	"A Survey of Cache Coherence Mechanisms in Shared Memory Multiprocessors", Lawrence, Department of Computer Science, University of Manitoba, Manitoba, Canada, May 14, 1998, http://www.cs.uiowa.edu/~rlawrenc/research/Papers/cc.pdf
	A12	"Bandwidth Adaptive Snooping", Martin, et al. <u>8th Annual International Symposium on High-Performance Computer Architecture (HPCA-8)</u> , Cambridge, MA, February 2-6, 2002.
	A13	"Timestamp Snooping: An Approach for Extending SMPs", Martin, et al., <u>9th International Conference on Architectural Support for Programming Languages and Operating Systems (ASPLOS-IX)</u> , Cambridge, MA, November 13-15, 2000.

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.